

## ABSTRACT

A 2.4 Å crystal structure of a protein construct containing the catalytic kinase domain of vascular endothelial growth factor receptor 2 (VEGFR2/KDR), a key enzyme in angiogenesis, has been determined in an unliganded, phosphorylated state. This protein construct, contains a modified catalytic linker and has comparable *in vitro* kinase activity to constructs containing the entire KID. The resulting construct retains comparable *in vitro* kinase activity to that of the wild-type KID, and more importantly, allows complete crystallization of the protein such that it may be characterized by X-ray crystallography. The present invention further discloses the use of x-ray crystallographic data for identification and construction of possible therapeutic compounds in the treatment of various disease conditions.

FOIA b7E, b7F, b7G, b7H, b7I, b7J, b7K, b7L, b7M, b7N, b7O, b7P, b7Q, b7R, b7S, b7T, b7U, b7V, b7W, b7X, b7Y, b7Z